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PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF AIR QUALITY

NATURAL MINOR (STATE ONLY) OPERATING PERMIT APPLICATION

Section 1: General Information 1.1 Application Type Type of permit for which application is made: Initial	FOR OFFICIAL USE ONLY State Only OP #: 36-3033 Reviewed By: Date: Comments:
X Renewal	fee reemd 7
L.L.C. a) Firm Name: Bulova Technologies b) Federal Tax ID: 23- c) Plant Name: Bulova Technologies L.L.C.	ာ ခွဲ
	e) Telephone (717) 299-2581 Condition of the condition o
Name: Robin E. Thomas Title: Direct Address:101 North Queen Street , Lancaster, PA 17604 Telephone Number:(717) 299-2581 extension 2607 1.4 Certification of Truth, Accuracy and Completeness This certification must be signed by a responsible official. Applications we	ector, Environmental & Chemical Services vithout a signed certification will be returned as
Subject to the penalties of Title 18 Pa. C.S. Section 4904 and 35 P.S.	ection 4009 (b) (2). I certify under penalty of law

Section 2: Site Inventory

2.1 Site Inventory

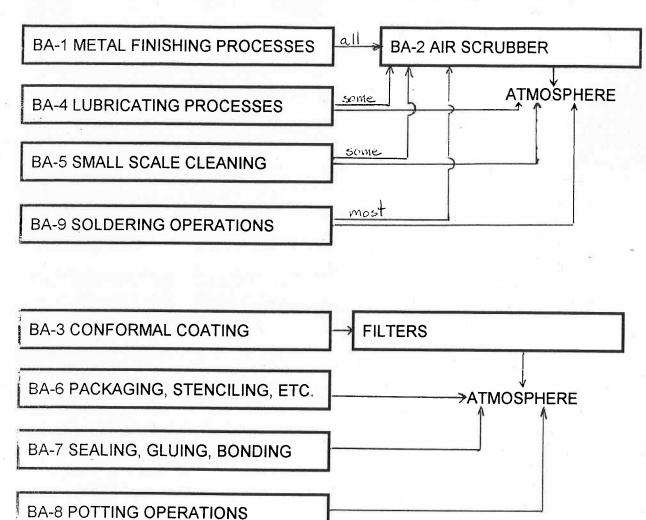
Give a complete listing of all air pollution sources and control equipment. Duplicate this page as necessary.

Unit ID#	Company Designations	Unit Description
BA-1	Metal Finishing Processes	Finishing Dept. & Chem. Lab. finishing
BA-2	Air Scrubber	Controls above source and all below with *
BA-3	Conformal Coating Processes	First & Fourth Floor Spray Booths
BA-4	Lubricating Processes (*some)	First floor dry film lube room and line stations
BA-5	Small Scale Hand Cleaning Operations (*some)	Finishing, Chem. Lab., and assembly line stat
BA-6	Packaging, Stenciling, and Marking Processes	Assembly line stations
BA-7	Sealing, Gluing, and Bonding Processes	Assembly line stations
BA-8	Potting OperationS	Assembly line stations
3A-9	Soldering Operations (*most)	Second floor clean room and line stations
weeks 1000 to		
	-,	

Insignificant Activities:

Bulova Technologies believes that the following activities produce very minor amounts of air emissions and should be considered as insignificant activities:

- 1. Chemistry Lab analyses There are four fume hoods which are used for occasional analyses. Some acid fumes are produced, but the exhaust is tied in to the air scrubber.
- 2. Cafeteria The company cafeteria has a grill, pizza oven, and french fryer, all of which are electrically powered. The cafeteria is open only for breakfast and lunch.
- 3. Bench grinders and belt sanders There are about six grinding wheels and belt sanders in various locations for occasional maintenance work in the facility. They are not used for production operations and generate minor amounts of dust.
- 4. Flammable solvents storage rooms (2) Containers of solvents in 5 gallon cans to 55 gallon drums are kept in these two specially designed rooms. Smaller safety cans are filled from the containers in these rooms from time to time. Any vapors that escape during filling of the safety cans are exhausted through the air scrubber.
- 5. Cooling towers There are two cooling towers on the roof which are used to cool the factory air conditioning units. The only materials in the towers are water and minor amounts of commercial biocide and corrosion inhibitor which remain in the water.
- 6. PC board trimmer This device cuts printed circuit boards from the panels. It is located in the second floor clean room and has its own dust collection system built in. There are virtually no emissions from this machine.



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Complete this section for each source at this site.

' 3.1 General Source Information

a) Unit ID Number: BA-1	b): Company Designation: Metal Finishing Processes
c) Source Type (check one):	Combustion Incinerator X Process
d) Plan Approval or Operating Permit Nur	nber : Permit Number 36-318-102
e) Manufacturer: various	f) Model NumberN/A
g) Unit Description: Finishing Departm	ent and Chemistry Lab metal finishing processes controlled by scrubber
h) Rated Heat Input/Throput: N/A	i) Installation Date: 11/16/81
j) Type of Fuel: N/A	k) Annual Foel Usage: :: N/A
1) Sulfur Content of Fuel (%); N/A	
Incinerators: Complete the following addi	itional information
a) Incinerator Capacity: N/A	Lbs/Hr b) Waste Type:
c) Primary Burner Heat Input;	Units
d) Secondary Burner Heat Input:	Units:
e) Incinerator Class:	Harrison

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
hydrochloric acid vapors	0.0265	0.0276
nitric acid vapors	0.00086	0.00089
sulfuric acid vapors	0.0003	0.00035
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Complete this section for each source at this site.

3.1 General Source Information

) Unit ID Number: BA-3 b) Com	pany Designation: Conformal Coating Processes
Source Type (check one): Combu	ustion Incinerator X Process
) Plan Approval or Operating Permit Number :	N/A
) Manufacturer: Binks and others	f) Model Number N/A
y) Unit Description: Hand spraying conformal	coatings on circuit boards in first floor paint booth
h) Rated Heat Input/Throput: N/A	i) Installation Date: October 1981
) Type of Fuel: N/A	k) Annual Fuel Usage N/A
l) Sulfur Content of Fuel (%): N/A	*
cinerators: Complete the following additional in	nformation
	nformation Lbs/Hr. b) Waste Type:
cinerators: Complete the following additional in Incinerator Capacity: N/A Primary Burner Heat Input:	
Incinerator Capacity: N/A	Lbs/Hr: b) Waste Type:

Pollutants	Quantity (lb/hr)	
xylene	0.092	0.095
toluene	0.057	0.059
methyl ethyl ketone	0.018	0.018
ethyl benzene	0.016	0.017
polypropylene glycol methyl ether ace	ate 0.0036	0.0038
polypropylene grycor metrlyr etner ace	ate 0.0036	0.0038

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Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-4 b) Co	mpany Designation: Lubricating Processes
Source Type (check one): Com	bustion Incinerator X Process
Plan Approval or Operating Permit Number	N/A
Manufacturer: Ronci, Blue M and others	s f) Model Number various
Unit Description: First floor dry film lubrica	ating processes and assembly line lubricating processes
) Rated Heat Input/Thruput: N/A	i) Installation Date: October 1981
Type of Fuel: N/A	k) Annual Fuel Usage: N/A
Sulfur Content of Fuel (%): N/A	
cinerators: Complete the following additional	information
Incinerator Capacity: N/A	Lbs/Hr b) Waste Type;
Primary Burner Heat Input;	Units:
Secondary Burner Heat Input:	Units
. Company of the comp	

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
isopropyl alcohol	0.246	0.256
ethyl acetate	0.215	0.224
methyl ethyl ketone	0.195	0.203
heptane	0.0089	0.0093
ethyl alcohol	0.0056	0.0058
butyl acetate	0.0041	0.0043

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Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Numb	r: BA-5	b) Company Design	ation: Small Scale	Hand Cleaning Operations
) Source Type (c	heck one);	Combustion	Incinerator	X Process
) Plan Approval	or Operating Permit 1	Vumber : N/A		
) Manufacturer:	Crest, Branson,	Blue M, New Holland	_f) Model Number	various
) Unit Descriptio	n: Ultrasonic and h	nand cleaning in Finish	ing Dept., Chem. Lat	o., and assembly lines.
ı) Rated Heat Inp	ut/Thruput: N/A)) I	nstallation Date:	October, 1981
) Type of Fuel:	N/A	k) A	nnual Fuel Usage:	N/A
) Sulfur Content	of Fuel (%): N/A			1
*				-
cinerators: Com	picte the following a	dditional information	¥	= = =
Incinerator Capa	⊒ity: N/A	Lbs/Hr	b) Waste Type:	
Primary Burner F	leat Input:		Units;	
Secondary Burne	r Heat Input:		Units:	
	wilitaka			

	Quantity (lb/hr)	Quantity (tons per year)
ethyl alcohol	0.155	0.162
hexane	0.115	0.120
isopropyl alcohol	0.038	0.039
methanol	0.0025	0.0026

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Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-6 b) C	ompany Designation: Packaging, Stenciling, and Marking Pro
c) Source Type (check one): Cor	nbustion Incinerator X Process
d) Plan Approval or Operating Permit Number	N/A
e) Manufacturer: N/A	f) Model Number N/A
g) Unit Description: Assembly line packagir	ng and marking operations using stencil inks, etc
h) Rated Heat Input/Thruput: N/A	i) Installation Date: October 1981
j) Type of Fuel:N/A	k) Annual Fuel Usage: N/A
l) Sulfur Content of Fuel (%): N/A	
sainanataura Camplata the Sallandan at 197	*
ncinerators: Complete the following additiona	I Intermation (Magazza) formulae ancestores
Incinerator Capacity: N/A	Lbs/Hr b) Waste Type:
Primary Burner Heat Input;	Units;
Secondary Burner Heat Input:	Units:
2 20 1 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
misc. VOCs	0.012	0.0125
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Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-7 b) C	ompany Designation: Sealing, Gluing, and Bonding Processes
c) Source Type (check one):	mbustion Incinerator X Process
d) Plan Approval or Operating Permit Number	N/A
e) Manufacturër: various	f) Model Number N/A
g) Unit Description: Various gluing, sealing,	bonding, and marking operations on assembly lines.
h) Rated Heat Input/Thruput: N/A	i) Installation Date: October 1981
j) Type of Fuel: N/A	k) Annual Fuel Usage: N/A
l) Sulfur Content of Fuel (%): N/A	
ncinerators: Complete the following additiona	I information
) Incinerator Capacity: N/A	Lbs/Hr. b) Waste Type:
Primary Burner Heat Input;	Units:
) Secondary Burner Heat Input:	Units:
) Incinerator Class:	

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
methanol	< 0.005	< 0.005
misc. VOCs	0.0096	0.010

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Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-8 b) Comp.	any Designation: Potting Operations
c) Source Type (check one): Combus	rtion Incinerator X Process
d) Plan Approval or Operating Permit Number :	N/A
e) Manufacturer: Blue M, Gruenberg	f) Model Number various
g) Unit Description: Potting / encapsulating proc	cesses on assembly lines
h) Rated Heat Input/Thruput: N/A	i) Installation Date: October 1981
j) Type of Fuel; N/A	k) Annual Fuel: Usage: N//
1) Sulfur Content of Fuel (%); N/A	* .
Incinerators: Complete the following additional inf	ormation
a) Incinerator Capacity: N/A	Lbs/Hr b) Waste Type:
c) Primary Burner Heat Input;	Units:
d) Secondary Burner Heat Input:	- Units:
e) Incinerator Class:	

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
misc. VOCs	< 0.0096	< 0.010

Complete this section for each source at this site.

' 3.1 General Source Information

a) Unit ID Number: BA-9 b)	Company Designation: Soldering Operations	
c) Source Type (check one);	Combustion Incinerator X Process	
d) Plan Approval or Operating Permit Numb	er : N/A	
e) Manufacturer: various	f) Model Number various	
g) Unit Description: Second floor clean ro	oom solderin g and assembl y line hand solder stations.	
h) Rated Heat Input/Thruput: N/A	i) Installation Date: October 1981	
j) Type of Fuel: N/A	k) Annual Fuel Usage: N/A	
1) Sulfur Content of Fuel (%): N/A	*	
ncinerators: Complete the following addition		
) Incinerator Capacity: N/A	Lbs/Hr b) Waste Type:	
) Primary Burner Heat Input;	Units:	
) Secondary Burner Heat Input:	Units:	
) Incinerator Class:		

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
possibly some trace amounts of lead	< 0.024	< 0.025
	^	

Section 4: Control Device Information (Duplicate this Section as needed)

4.1 General Control Device Information

	(1000000000000000000000000000000000000
a) Unit ID Number: BA-2 b)	Company Designation: Air Scrubber
c) Used By Sources: Metal Finishing Processe	es, Chemistry Lab, Soldering Operations, & Various other minor
d) Type: Packed Bed Wet Scrubber	sources
e) Pressure Drop in H20; 2 1/2 inches	f) Estimated Capture Efficiency: 98 percent
g) Scrubber Fluid Flow Rate (GPM): 500 GF	PM
h) Manufacturer: Heil Process Equipment	Co. i) Model Number: 760-100
j) Installation Date: November 16, 1981	

k) Control Efficiency Estimates for this control device:

Pollutant or CAS Number	Estimated Control Efficiency	Basis for Efficiency Estimate
hydrochloric acid	90 percent	Manufacturer's Data
nitric acid	97 percent	Manufacturer's Data
sulfuric acid	97 percent	Manufacturer's Data
		T A
9.	P P	
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